





eXchange Services Notes, Tips and Validations For Grants.gov Components

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Filling Out an Application for NIH Grants

How applicant institutions submit a grant application to the National Institutes of Health (NIH) is changing from mailing in a paper application to submitting the application electronically through Grants.gov using the new SF424 (R&R) application. For information about the timetable for each mechanism's conversion to electronic submission and other information, go to http://era.nih.gov/ElectronicReceipt/.

For electronic submission, applicant institutions can submit applications on PureEdgeTM forms downloaded from Grants.gov, build a system-to-system interface with Grants.gov or work with a commercial service provider. Regardless of submission method, Grants.gov electronically performs a simple validation against the application. If it passes inspection, your application is put in a queue, which the National Institutes of Health (NIH) then pulls into its system.

The NIH performs a more specific and detailed electronic check of the application against the instructions in the application guide and funding opportunity announcements. If your application passes the validation check, the NIH sends an email to the Authorized Organization Representative (AOR)/ Signing Official (SO) and Project Director (PD)/Principal Investigator (PI). The email includes the NIH application tracking number and notification that both the SO and PI have two days to verify the application on the eRA Commons so that the application can begin the review process.

If the application doesn't pass the validation check—usually because NIH instructions are not being followed—NIH sends the AOR/SO and PD/PI an email saying there are *error messages* or a *warnings* that you must address:

- Error message: All errors must be fixed to complete the submission process. Once all errors are addressed, the applicant organization must submit the entire corrected application through Grants.gov as a change/corrected application.
- Warning: Warnings do not stop the application from being accepted by the eRA System; however, each warning should be looked at carefully to avoid delays or issues later on in the peer review process.

The AOR/SO and PD/PI can log onto the eRA Commons to view the error codes and warnings. **Note:** since email can be unreliable, it is the applicant's responsibility to periodically check the eRA Commons for the status of the application after notification is received that NIH has pulled it from the Grants.gov queue.

So how can one be sure that the application passes all validation checks and results in no error messages or warnings? Carefully read and follow the application guide and announcement-specific instructions. Be sure that all sections are filled out to the best of your ability and all attachments are included. NIH requires that all text attachments be in PDF format. Be clear about what is required for the type of application you are submitting. Make sure you observe the page limits for the different attachments. Confirm that you haven't exceeded direct cost limitations. Don't take shortcuts.

Here are some tips for filling out each section of the application. The NIH requires that applications are submitted using the SF424 (R&R) package, as well as supplemental, agency-specific forms identified as Public Health Service (PHS) application forms. Note that included in each funding opportunity announcement will be the complete application forms package and guide.

After the application package is submitted, the eRA system will assemble the grant image, generate a table of contents and include headers (PI's name) and footers (page numbers) on all pages.

The following notes, tips, validations and errors/warnings address SF424 Research & Related (R&R) and PHS 398 specific components of an NIH application package.

Revision Summary

Version	Revision	Summary of Changes	
Number	Date		
1.8	January 23,	Requirements for X02 mechanism and other assorted items:	
	2006	Allow submission with no PHS 398 checklist component	
		Error if application is for a foreign organization for X02	
		Mapping and validation for budget figures for X02	
		Error for revision or renewal for X02	
		Accept pre-application type of submission for X02	
		Warning on human, animal subjects, HESC responses of 'yes' for X02	
		Modified validations on Research Plan for X02	
		Added appendices to attachments that are PDF-validated	
		Remove validations on state, zip code, and country on performance site	
		Change various validations from error to warning	
		Change text on various error messages	
		Remove validation on fee; on former institution name; if an application is submitted after RFA/PA expiration date	
		Change validation on Research Plan for Fast Track application to 25 pages.	
		• Do not require Protection of Human Subjects attachment if human subjects are not included	
		Remove validations on number of months for academic, summer, and calendar months.	
		Change the validation on the Animal Subject Assurance Number to accept the word 'None' or an assurance number	
		Set mapping for HESC	
		Change mapping for small business	
		Change page limit for AHRQ Conference Plan (R13)	
	February 16,	Limit intro for Fast Track application to 3 pages	
	2006	Require months on budget	
		Change text on error	
		Change error to warning	
		Exempt R36 and Opdivs from 250k check	

SF424 (R&R)

Key

Green cell shading indicates "not accepted at this time"					
		Red text indicates new information since the last version.			
		Strike-through red text indicates deleted information.			

Note: where items are truncated, grant image should display value as submitted through Grants.gov, unless otherwise indicated.

The implementation of some validation requirements may be done at the schema level rather than at the application validation level. The validation requirement does not change; however, in some cases, the error message may be different. The error messages in this table apply only in those cases where the validation is done at the application validation level.

A validation needs to be done on all attachments (including appendices) to make sure they are in .pdf format. If an attachment is not in .pdf format, the following error should be returned: "The <attachment> attachment is not in PDF format. All attachments must be provided to NIH in PDF format."

For all validations where a comparison is being made on text entry (or dropdown) fields against the eRA database, trim spaces at the end before making the comparison.

Component Fie	ld Validation	Error Message	Notes & Tips
SF424 (R&R) Type of Submiss (Pre-Ap App,	sion accept 'Pre-application' as	'Pre-application' is not a recognized submission type for NIH applications	NIH is not accepting "pre-applications" unless specifically noted in the Funding Opportunity Announcement.
Change App)	For X02 submissions, do not accept 'Application' as submission type Do not accept 'Application' submission type if there is an associated prior submission. Find associated prior submission by matching on PI Commons account institution, and project title for the same council round.	This application is a duplicate of a previous submission for the same council round. Please resubmit using the 'Changed/Corrected Application' submission type.	Don't submit duplicate applications for the same council round. If you are submitting corrections to a previously-submitted application, submit it as a "Changed/ Corrected Application."

Component	Field	Validation	Error Message	Notes & Tips
		Do not accept X02 pre-application submission type if there is an associated prior submission. Find associated prior submission by matching on PI Commons account, institution, and project title for the same council round.	This application is a duplicate of a previous submission for the same council round. Please resubmit using the 'Changed/Corrected Application' submission type.	
SF424 (R&R)	Date Submitted	If Phase II SBIR/STTR, and Phase I identified as NIH grant, provide warning if date submitted is more than 2 years after Phase I project period end date	Phase II SBIR/STTR applications should be submitted within 6 receipt dates after the expiration of the Phase I budget.	
SF424 (R&R)	Applicant Indentifier			
SF424 (R&R)	Date Received by State			
SF424 (R&R)	State Application Identifier			
SF424 (R&R)	Date Received by Grants.gov			
SF424 (R&R)	Federal Identifier	If a resubmission or a renewal, this component is mandatory	For resubmissions (revised applications) and renewals (competing continuations), the Federal Identifier must be included. Please include the IC and serial number of the prior grant number in the Federal Identifier field on the S 424 RR Face page (e.g., CA123456).	You must include the prior grant number here if you are submitting a revised application (resubmission), a competing continuation (renewal), or a new Phase II SBIR/STTR. The IC and serial number of the prior grant number will be checked for accuracy. Schema must parse out the components of the grant number.
		If a new Phase II SBIR/STTR, this component is mandatory	For Phase II SBIR/STTR submissions, the Federal Identifier must be included. Please include the IC and serial number of the prior grant number in the Federal Identifier field on the SF424 RR Face page (e.g., CA123456).	
		If a renewal Phase II SBIR/STTR, this component is mandatory	For Phase II SBIR/STTR submissions, the Federal Identifier must be included. Please include the IC and serial number of the prior grant number in the Federal Identifier field on the SF424 RR Face page (e.g., CA123456).	

Component	Field	Validation	Error Message	Notes & Tips
		If Phase II SBIR/STTR, and Phase	Phase II SBIR/STTR applications may be	
		I grant number is found in NIH	submitted only if the Phase I grant has been	
		database, provide warning if Phase	awarded.	
		I grant has not been awarded.		
		If a resubmission or a renewal, or a	Federal Identifier format is not valid. Please	
		new Phase II SBIR/STTR,	provide the IC and serial number of the prior	
		components of grant number must	grant (e.g., CA123456).	
		be 'parsable'. Components are		
		<application_type> <mechanism></mechanism></application_type>		
		<institute> <serial number="">-</serial></institute>		
		<support year=""><suffix code)<="" td=""><td></td><td></td></suffix></support>		
		(example: 1R01GM072828-01A1)		
		-Application Type is a one-digit		
		number.		
		-Mechanism is a letter followed by		
		a two-digit number.		
		-Institute (IC) consists of two		
		charactersSerial number is a number that has		
		been assigned sequentially within		
		an IC (must be followed by a		
		dash).		
		Support year is anywhere from 1		
		to 99.		
		-Suffix code will start with an 'A'		
		or an 'S'.		
		-At least the IC and serial number		
		must be included.		
		If a resubmission or a renewal, or a	The Federal Identifier that you have entered is	
		new Phase II SBIR/STTR, the	not a grant number that has been previously	
		prior grant number must exist in	assigned.	
		the NIH system. Matching is		
		performed against NIH Institute/		
		Center and Serial Number.		
		If a resubmission or a newel, or a	You must include the <missing component=""></missing>	
		new Phase II SBIR/STTR,	of the prior grant in the Federal Identifier.	
		mandatory components are IC and		
		serial number.		

Component	Field	Validation	Error Message	Notes & Tips
		If PIChangeIndicator not set, check if PI on this submission has same Commons Account as PI assigned to the prior grant. If not, provide warning if last name of PI on prior grant matches last name for PI on current application.	The prior grant entered as the Federal Identifier is not associated with the Commons account for this PI. This application will be received by NIH, but may be returned after internal processing.	
		Provide error if Commons Account doesn't match and last name of PI on prior grant doesn't match last name for PI on current application.	The prior grant that has been entered as the Federal Identifier is not associated with this PI.	
		Ignore case, spaces, and punctuation on match.		
		For a resubmission, a summary statement must have been mailed for the prior grant	A resubmission (a revised application) cannot be submitted until the Summary Statement for the previous application has been released by NIH.	
		For a resubmission, the prior grant must not have been awarded, unless it has been identified as interim funding.	A resubmission (a revised application) cannot be submitted if a prior version in the same support year has been awarded.	
		For a resubmission, if the prior grant suffix code = 'A2', display a warning (default for mechanisms not otherwise defined)	NIH normally limits the number of resubmissions for an application to two. This application will be received by NIH, but may be returned after internal processing.	
		For a resubmission, of an R36 application (activity code on funding opportunity = 'R36'), prior grant suffix code must not = 'A2'.	This application has exceeded the number of resubmissions permitted by NIH and cannot be accepted.	
		For a resubmission, prior grant suffix code must not = 'A3'.	This application has exceeded the number of resubmissions permitted by NIH and cannot be accepted.	
		For a 'Phase II' SBIR/STTR, validations on parsing Federal Identifier, requiring IC and serial number, and identifying the number as existing in the NIH system are <i>warnings</i> only.	Error message text is the same as the items above.	These need to be warnings, since it is possible to submit a phase II application where the phase I was funded externally (or funded as an NIH contract, not a grant).

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Applicant Information, Organization al DUNS	Must match DUNS recorded for IPF in Commons. Validate the leftmost 9 characters only, discarding any characters submitted in places 10-13.	The DUNS number you have provided does not match the number NIH has on record for your organization. The SO should make sure the correct DUNS number has been entered in the NIH Commons.	
SF424 (R&R)	Applicant Information, Legal Name	None		Display in grant image as submitted; store in database as reflected in IPF associated with PI Commons account and org. DUNS. Long-term, change length in eRA db to 120 characters.
SF424 (R&R)	Applicant Information, Department	None		
SF424 (R&R)	Applicant Information, Division	None		
SF424 (R&R)	Applicant Information, Street 1 and 2	If either line>50 characters, truncate and display warning.	Street < <i>n</i> > of the Applicant Information exceeds the limit of 50 characters. The grant image will display the address as submitted; NIH will store the first 50 characters only.	Long-term, change eRA db to 55 chars.
SF424 (R&R)	Applicant Information, City	None		
SF424 (R&R)	Applicant Information, County	None		
SF424 (R&R)	Applicant Information, State	Required if country is US or Canada.	The Applicant Information State must be supplied for US and Canadian addresses.	
		If country not US or Canada must be blank.	The Applicant Information State should be blank for all countries other than the United States and Canada.	
		Transform to 2-char abbreviation before validating and storing. If state name can't be transformed, give error.	The Applicant Information State is not a valid state name.	
SF424 (R&R)	Applicant Information, Zip Code	Required if country is US. Must be 5 or 9 numeric digits if country is US.	The Zip Code was not entered in the Applicant Information section. The Applicant Information Zip Code must be entered in 5-digit or 9 digit format.	Long-term, change in eRA db to 13 characters.

Component	Field	Validation	Error Message	Notes & Tips
		If >9 characters, truncate and display warning (remove any dashes before truncating).	The Applicant Information Zip Code has more than 9 digits. The grant image will display the zip code as submitted; NIH will store the first 9 digits only.	
SF424 (R&R)	Applicant Information, Country	For an R13 application (activity code on funding opportunity = 'R13' or 'U13'), provide a warning if country is not US For an R15 application (activity code on funding opportunity = 'R15') return an error if country is not US	The Applicant Organization for a Conference Grant should be located in the US. This application will be accepted by NIH, but may be delayed in the peer review process. The Applicant Organization for an AREA Grant must be located in the US.	
		For an S10 application, return an error if country is not US Must be a valid ISO 3166-1 alpha-3 country code.	The Applicant Organization for an S10 application must be located in the US. The Applicant Information country code provided (<country>) is not a valid ISO 3166-1 alpha-3 country code.</country>	
SF424 (R&R)	Person to be Contacted	If the combination of all items in this component is more than 30 characters, truncate and display warning. Display in grant image as submitted.	The grant image will display the Person to Be Contacted as submitted; NIH will store the first 30 characters only.	Long-term, change in eRA db for Contact Name to accommodate the way it is submitted through Grants.gov.
SF424 (R&R)	Person to be Contacted, Phone Number	None		
SF424 (R&R)	Person to be Contacted, Fax Number	None		
SF424 (R&R)	Person to be Contacted, e-	e-mail is required	The e-mail address for the Person to Be Contacted is required.	
	mail	Must contain a '@', with at least 1 and at most 64 chars preceding and following the '@'. Control characters (ASCII 0 through 31 and 127), spaces and special chars <>()[];: are not valid.	The submitted e-mail address for the Person to Be Contacted, <email>, is invalid. Please enter e-mail addresses in the format username@domainname.com</email>	
SF424 (R&R)	Employer Identification	If >12 characters, truncate (no warning).		

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Type of Applicant (other, woman owned, disadvantage d)	For an SBIR/STTR application, must be 'Small Business'.	For an SBIR/STTR application, the Type of Applicant must be 'Small Business'.	Design/mapping note: when the applicant type is "O - Small Business", set small_business_code to 'N', but do not supersede any value that is the result of mapping the women-owned or socially-economically-disadvantaged qualifiers. In other words, default when applicant type is "O" should be 'N" instead of "null". This should be overwritten if the women-owned and socially-economically-disadvantaged indicators need to record either a W, M, or B in this field.
SF424 (R&R)	Type of Application (New, Resub, Renewal, Contin, Revision)	Must be either New, Resubmission, or Renewal	<type application="" of=""> is an invalid Type. The Type must be New, Resubmission (for revisions/amendments), or Renewal (for competing continuations).</type>	 You must select one of the following: New, Resubmission (for revisions/amendments) or Renewal (for competing continuations). Note: Renewal is not valid for Phase I SBIR/STTR applications. A Continuation is equivalent to a Progress Report. However, NIH and other PHS agencies will not use the Continuation box. A Revision is somewhat equivalent to a Competing Supplement. If you are submitting an SBIR/STTR application, select "Small Business."
		Renewal is not a valid type for a Phase I SBIR/STTR or for an X02. Revision is not a valid type for an	A renewal (competing continuation) cannot be submitted for a Phase I SBIR/STTR this application. A revision (supplement) cannot be submitted	
SF424 (R&R)	If revision, increase award, decrease, etc.	S10 or an X02 application. None	for an S10 this application.	
SF424 (R&R)	Name of Federal Agency			

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Catalog of Federal Domestic Assistance Number			The CFDA number and title are filled in based on the specific announcement.
SF424 (R&R)	Submitted to other agencies?			
SF424 (R&R)	Descriptive Title	Truncate if >81 characters, and provide warning	The Descriptive Title exceeds the limit for NIH. It will be displayed in the grant image as submitted; NIH will store the first 81 characters only in the eRA database.	Long-term, expand eRA db to 200 chars
SF424 (R&R)	Areas Affected by Project			
SF424 (R&R)	Proposed project start date	Must be later than current date	The Proposed Project Start Date must be later than the Proposed Project Start Date.	
SF424 (R&R)	Proposed project ending date	Must be later than ProjectStartDate	The Proposed Project Ending Date must be later than the Proposed Project Start Date	
SF424 (R&R)	Congressional districts of applicant	Truncate if >2 characters (no warning). Before truncating, remove leading spaces and punctuation. Add leading zero if user entered only one digit. Display in grant image as two characters. Must be a valid congressional	Congressional district < Congressional	Long-term, expand eRA database to 30 chars.
		district code (after truncating).	District> is invalid. If the applicant organization is a foreign institution, enter all zeros. To locate your district visit http://congress.org/congressorg/dbq/official s/?lvl=L.	
	Congressional districts of project			
SF424 (R&R)	PD/PI Contact Information	Pulled from R&R Key Person Form (for PD/PI)		

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Total estimated project funding	For an S10 application, display a warning if this is greater than 500k	The direct cost request is greater than 500k. The application will be processed, but a concern may be raised during review.	Design note: mapping for S10s and X02 for budget figures should come from this element instead of from budget components. It should be mapped to appl_periods_t and to the following columns in appls_t: direct_cost_requested_amt, total_cost_requested_yearl_amt, total_cost_requested_amt. (indirect_cost_requested_amt should be 0). For X02, all values will be zero.
		For an X02 application, provide an error if non-zero values are entered.	Total Estimated Project Funding must be zero.	
SF424 (R&R)	Total federal and non- federal funds	For an X02 application, provide an error if non-zero values are entered.	Total Federal and non-Federal Funds must be zero.	
SF424 (R&R)	Estimated program income	For an X02 application, provide an error if non-zero values are entered.	Total Estimated Program Income must be zero.	
SF424 (R&R)	Subject to state executive order review?			
SF424 (R&R)	Agreement and certification			
SF424 (R&R)	Authorized representative name	Truncate if first or last name>30 chars, or if suffix>5 chars. Display warning.	The Authorized Representative <element name=""> exceeds the NIH limit. The grant image will display the name as submitted; NIH will store the first <database length=""> characters in the eRA database.</database></element>	Long-term, change in eRA db to 60 chars for last name, 35 for first name, 10 for suffix (all names in db)
SF424 (R&R)	Authorized representative position/title	Truncate if >30 chars. Display warning.	The Authorized Representative position/title exceeds the NIH limit. The grant image will display the name as submitted; NIH will store the first 30 characters in the eRA database.	Long-term, change in eRA db to 45 chars
SF424 (R&R)	Authorized representative organization			
SF424 (R&R)	Authorized representative department			

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Authorized representative division			
SF424 (R&R)	Authorized representative street 1 & 2, city, state, zip code, country,	If either line 1 or 2 >50 characters, truncate and display warning.	Street < <i>n</i> > of the Authorized Representative address exceeds the limit of 50 characters. The grant image will display the address as submitted; NIH will store the first 50 characters only.	Long-term, change in eRA db for zip code to 13 characters
	phone number, fax, e-mail	Transform state to 2 char. abbreviation for US or Canada before validating and storing. If state name can't be transformed, give error.	The Authorized Representative State is not a valid state name.	
		If zip>9 characters, truncate and display warning. Remove dashes before truncating and/or storing	The Authorized Representative Zip Code has more than 9 digits. The grant image will display the zip code as submitted; NIH will store the first 9 digits in the eRA database.	
SF424 (R&R)	Authorized representative county			
SF424 (R&R)	Authorized representative signature and date			
SF424 (R&R)	Pre- application attachment	Not accepted at this time		

R&R Personal Data Component

Not used by NIH. Information is pulled from PD/PI Commons contact information.

Research & Related: Project/Performance Site Location(s)

Component	Field	Validation	Error Message	Notes & Tips
Project/	Primary		_	
Performance	Location,			
Site $(R\&R)$	Organization			
	Name			
Project/	Primary			
Performance	Location,			
<i>Site</i> (<i>R&R</i>)	Street 1 and 2			
Project/	Primary			
Performance	Location, City			
<i>Site</i> (<i>R&R</i>)				
Project/	Primary			
Performance	Location,			
<i>Site</i> (<i>R&R</i>)	County			
Project/	Primary	Required if country is US or	The Project/Performance Site Primary	
Performance	Location,	Canada.	Location State must be supplied for US and	
<i>Site</i> (<i>R&R</i>)	State		Canadian addresses.	
		If country is not US or Canada	The Project/Performance Site Primary	
		must be blank.	Location State should be blank for all	
			countries other than the United States and	
			Canada.	
		Transform to 2 char. Abbrev	The Project/Performance Site Primary	
		before validating and storing. If it	Location State is not a valid state name.	
		can't be transformed, give error.		
Project/Perform	Primary	Required if country is US	The zip code was note entered for the	Long term, change in eRA db to 13
ance Site (R&R)	Location, Zip		Project/Performance Site Primary Location.	characters.
	code	Must be 5 or 9 numeric digits if	The Project/Performance Site Primary	
		country is US	Location Zip Code must be entered in 5 digit	
			or 9 digit format.	
Project/Perform	Primary	Must be a valid ISO 3166-1 alpha	The Project/Performance Site Primary	
ance Site (R&R)	Location,	3 country code.	Location country code provided (<country>)</country>	
	Country		is not a valid ISO 3166-1 alpha-3 country	
	-		code.	

Component	Field	Validation	Error Message	Notes & Tips
Project/	Location 1,			
Performance	Organization			
Site (R&R)	Name			
Project/	Location 1,			
Performance Site (R&R)	Street 1 and 2			
Project/	Location 1,			
Performance	City			
Site (R&R)	City			
Project/	Location 1,			
Performance	County			
Site (R&R)	-			
Project/Perform	Location 1,	Required if country is US or	The Project/Performance Site Location 1 State	
ance Site (R&R)	State	Canada. Must be a valid state or	must be supplied for US and Canadian	
		provide abbreviation.	addresses.	
		If country is not US or Canada	The Project/Performance Site Location 1 State	
		must be blank	should be blank for all countries other than the	
			United States and Canada.	
		Transform to 2 char. Abbrev	The Project/Performance Site Location 1 State	
		before validating and storing. If it	is not a valid state name.	
D : //D . C	T 4 1	can't be transformed, give an error.	The Zip Code was not entered for the Project/	Louis towns about 2 in a DA 4h to 12
Project/Perform	Location 1,	Required if country is US	Performance Site Location 1.	Long term, change in eRA db to 13
ance Site (R&R)	Zip code	Must be 5 or 9 numeric digits if	The Project/ Performance Site Location 1 Zip	Characters.
		country is US	Code must be entered in 5-digit or 9-digit	
		Country is US	format.	
Project/Perform	Location 1,	Must be a valid ISO 3166-1 alpha	The Project/ Performance Site Location 1	
ance Site (R&R)	Country	3 country code.	country code provided (>Country>) is not a	
		2 22 33-2-3	valid ISO 3166-1 alpha-3 country code.	
Project/Perform	Additional		,	
ance Site (R&R)	Location(s)			

Research & Related: Other Project Information

Component	Field	Validation	Error Message	Notes & Tips
Other Project	Human	Either ExemptionNumber or	Either Exemption Number or Assurance	• If you click Yes that human subjects are
Info(R&R)	Subjects	AssuranceNumber must be	Number must be provided if Human Subjects	involved, you must provide either an
	Involved?	specified if	is "Yes".	exemption number or assurance number.
		HumanSubjectsUsedQuestion is true.		• If you click Yes that vertebrate animals
		nuc.		are involved, you must provide one of the
				following:
				 Assurance number AND IACUC
				approval date
				 Assurance number AND IACUC
				approval pending
				- IACUC approval pending
		If HumanSubjectsUsedQuestion is	When Human Subjects is "No," Exemption	
		false, ExemptionNumber must not	Number must not be specified.	
		be specified	Will II Clinical Colonia	
		If HumanSubjectsUsedQuestion is false, provide a warning if	When Human Subjects is "No," Assurance Number does not apply.	
		AssuranceNumber is specified.	Number does not appry.	
		Must be true if Human Subjects	The 'Human Subjects Involved' question must	
		Clinical Trial question is true.	be "Yes" if the Human Subjects Clinical Trial question is "Yes".	
		For S10 application, display a	The answer to the Human Subjects involved	
		warning if this is true.	question should be 'No'. The application will be processed, but a concern may be raised	
			during review.	
Other Project	IRB review		-	
Info (R&R)	pending?			
Other Project	IRB approval	Date can't be in the future (but can	The IRB approval date cannot be in the future.	
Info (R&R)	date	be blank)		
Other Project	Exemption	Must be "E1" through "E6"	The Exemption Number must be within the	
Info $(R\&R)$	number		range of E1 to E6.	

Component	Field	Validation	Error Message	Notes & Tips
Other Project Info (R&R)	Human subject	Provide warning if it doesn't match IPF human subject assurance	The human subject assurance number entered in the application does not match what is on	
mjo (K&K)	assurance	number for this organization.	file for your organization. There are rare cases	
	number	Match should be on the last 11	where this is permissible. Please make sure	
	Humber	characters of the IPF assurance	that the correct number is entered. If not,	
		number. If the Assurance Number	correct and resubmit.	
		that is receive is exactly eight	correct and resubmit.	
		characters long and consists of all		
		numeric digits, prefix the string		
		with 'FWA' before validating and		
		storing in the database.		
Other Project	Vertebrate	If this is 'Y', then ONE of the	When Vertebrate Animals is "Yes," you must	
Info $(R\&R)$	animals used?	following must be provided:	provide either (1) animal welfare assurance	
<i>y</i> (Assurance Number + IACUC	number + IACUC approval date, (2) animal	
		Approval Date	welfare assurance number + an indication that	
		Assurance Number + IACUC	IACUC approval is pending OR (3) the word	
		Approval Pending	'None'.	
		• IACUC Approval Pending		
		• The word 'None' (case		
		insensitive, don't validate on		
		punctuation)		
		For S10 application, display a	The answer to the Vertebrate Animals Used	
		warning if this is true.	question should be 'No'. The application will	
			be processed, but a concern may be raised	
			during review.	
Other Project	IACUC	Provide a warning if Vertebrate	When Vertebrate Animals is "No," IACUC	
Info $(R\&R)$	review	Animals Used is 'N'	Approval Pending indicator does not apply.	
0.1. D	pending?	D :1 : :0	WI W I I I I I I I I I I I I I I I I I	
Other Project	IACUC	Provide a warning if	When Vertebrate Animals is "No," IACUC	
Info(R&R)	approval date	VertebrateAnimalsUsedQuestion is false	Approval Date does not apply.	
		The date can't be in the future	The IACUC Approval Date cannot be in the	
			future.	
Other Project	Animal	Provide a warning if	When Vertebrate Animals is "No," Assurance	
Info $(R\&R)$	Welfare	VertebrateAnimalsUsedQuestion is	Number does not apply.	
	Assurance #	false		

Component	Field	Validation	Error Message	Notes & Tips
		If an animal welfare assurance	The Animal Welfare Assurance Number	
		number is entered, provide a	entered in the application does not match what	
		warning if it doesn't match animal	is on file for your organization. There are rare	
		welfare assurance number for this	cases where this is permissible. Please make	
		organization. Match needs to be on	sure that the correct number is entered. If not,	
		the last 9 characters of the IPF assurance number. This validation	correct and resubmit.	
		should not be done if the field is		
		left blank or if the word 'None' is		
		entered.		
Other Project	Proprietary			
Info $(R\&R)$	or privileged			
	info?			
Other Project	Impact on			
Info (R&R)	environment?			
Other Project	Activities			
Info (R&R)	outside US?			
Other Project	Project	Limited to one page	The Project Summary/Abstract is limited to 30	
Info (R&R)	Summary	7 710 11 11 11	lines of text.	
Other Project	Project	For non-S10 applications, limit to	The Public Health Relevance Statement	The project narrative should be used for the
Info (R&R)	Narrative	1 page	should be no longer than 2 or 3 sentences.	Public Health Relevance Statement and
Other Project	Bibliography			should be no longer than 2 or 3 sentences.
Info (R&R)	and			
mjo (K&K)	References			
Other Project	Facilities and			
Info (R&R)	other			
J = (==)	resources			
Other Project	Equipment	Required for S10 applications.	The Equipment Attachment is required for	
Info $(R\&R)$			S10 applications.	
Other Project	Other	For S10 applications, provide	At least one attachment should be provided as	Note that multiple attachments may be
Info (R&R)	attachments	warning if at least one attachment	an 'Other Attachment' on the Other Project	received with Other Attachments. They
		has not been included for this.	Information page. Please consult the funding	should all be processed.
			opportunity announcement to which you are	
			responding, for the type(s) of information to	
			be attached. The application will be processed	
			if you have not included an 'Other Attachment', but a concern may be raised	
			during review.	
			during review.	

Research & Related: Senior/Key Person Profile

Component	Field	Validation	Error Message	Notes & Tips
Senior/Key	PD/PI Profile	Required.		Note: Identify this Senior/Key Person as the
Person (R&R)	Information,			contact PI if multiple PI roles are defined.
	name (prefix,	If only a Commons Account is	No name was provided for the PD/PI, with	
	first name,	supplied, display a warning to pay	Commons Username: <credential>. The name</credential>	
	middle name,	attention to the name that is	listed on this person's Commons account,	
	last name,	generated in the grant image, since	<commons components="" name="" profile="">, will</commons>	
	suffix)	this will appear exactly as it is represented in the Commons.	be used for this submission.	
		If this and Commons Account	The name provided for the PD/PI, <first< th=""><th>Post-testing solution: If validation fails,</th></first<>	Post-testing solution: If validation fails,
		provided, provide warning if last	name, middle initial, last name>, does not	provide warning that the Commons name
		name or first name on account	match the name listed on the Commons	(or position title) is xxxx and the name
		doesn't match provided last name	account: <first initial,="" last<="" middle="" name,="" th=""><th>submitted through Grants.gov is yyyy and</th></first>	submitted through Grants.gov is yyyy and
		or first name, and/or if the first	name>. The grant image will display the name	we will be displaying the Commons data.
		initial of the middle name on the	as submitted here.	Provide ability for the submitter to update
		account doesn't match the first		their Commons account and to regenerate
		initial of the middle name that has		the image to display the updated
		been provided. Comparison to		information from the Commons account.
		ignore case and embedded spaces,		
G : /IV	DD/DID (*)	but not embedded punctuation.	TI DD/DI '' /''I ZD '' /''I S 1	Do some to metals the DD/DI's modition and
Senior/Key	PD/PI Profile	If title doesn't appear on an	The PD/PI position/title, <position title="">, does not match those listed on the Commons</position>	Be sure to match the PD/PI's position and title with those listed in the eRA Commons
Person (R&R)	Information, Position/Title	employment record for this person		account. Note that the grant image will
	Position/Title	and organization in Commons,	account: <pre><pre></pre></pre>	display the position and title that you submit
		provide warning message and display the submitted position/title	commas>. The grant image will display the position/title as submitted here.	on this page.
		in the grant image.	position/title as submitted here.	on this page.
		Truncate if greater than 40		
		characters, before comparing to		
		title stored in database. No warning		
		message is needed to the submitter.		
Senior/Key	PD/PI Profile			
Person (R&R)	Information,			
(Organization			
	Name			
Senior/Key	PD/PI Profile	Provide a warning if not entered.	If appropriate for your organization, please	
Person (R&R)	Information,		supply a department for the PD/PI.	
,	Department			

Component	Field	Validation	Error Message	Notes & Tips
Senior/Key	PD/PI Profile	Provide a warning if not entered.	If appropriate for your organization, please	
Person (R&R)	Information, Division		supply a division for the PD/PI.	
Senior/Key	PD/PI Profile	Transform state name to 2 char.	The PD/PI Profile State is not a valid state	Long-term, change in ERA db for zip code
Person (R&R)	Information,	abbreviation before storing. If state	name.	to 13 characters
	Street 1 and	name can't be transformed, give an		
	2, city, state,	error.		
	zip, country,			
	phone			
	number, fax number, e-			
	mail			
Senior/Key	PD/PI Profile			
Person (R&R)	Information,			
Senior/Key	County PD/PI Profile,	Must be specified for the PD/PI	The Commons Username must be submitted	
Person (R&R)	credential	with the specified for the 1 D/11	for the PD/PI in the Credential field.	
		Truncate if greater than 30		
		characters, before comparing to		
		account stored in database. No		
		warning message is needed to the		
		submitter.		
		If specified, must be a valid	The Commons Username < Credential > is not	
		Commons account.	a recognized Commons account.	
		For the PD/PI, this account must	The Commons account indicated for the	
		be affiliated with the organization	PD/PI is not affiliated with the applicant	
		submitting the application and have the PI role	organization.	
Senior/Key	PD/PI Profile,			
Person(R&R)	other project			
	role category			
Senior/Key	Biosketch	Limited to four pages	The Biosketch for the PD/PID, <first name<="" td=""><td></td></first>	
Person (R&R)			last name>, is longer than four pages.	
Senior/Key	Current and			
Person (R&R)	Pending			
Senior/Key	Support Profile, senior	Truncate if first or last name>30	The Senior/Key Person <element name=""> for</element>	Long-term, change in eRA db to 60 chars
Person (R&R)	& key person	chars, or suffix>5 chars. Display	<pre><first last="" name=""> exceeds the NIH limit.</first></pre>	for last name, 35 for first name, 10 for
1 crson (nan)	x, name	warning.	The grant image will display the name as	suffix (all names in db)
	,		submitted; NIH will store the first <database< td=""><td>("nth" indicates the relative order of this</td></database<>	("nth" indicates the relative order of this
			length> characters only.	KeyPerson element)
			-	

Component	Field	Validation	Error Message	Notes & Tips
		If this and Commons Account provided, provide warning if any component of name on account doesn't match provided name. Comparison to ignore case and embedded spaces, but not embedded punctuation.	The name provided for Key Person <submitted components="" name=""> does not match the Commons account name (<commons components="" name="" profile="">). The grant image will display the name as submitted.</commons></submitted>	Post-testing solution: If validation fails, provide warning that Commons name is <i>xxxx</i> and name submitted through grants.gov is <i>yyyy</i> and we will be displaying the Commons data. Provide ability for the submitter to update their Commons account and to regenerate the image to display the updated information from the Commons account.
		For S10 applications, provide warning if there are not at least two senior/key persons (other than the PD/PI), with project role of 'Other (specify)'.	Less than 2 senior/key person entries have been included with a project role of 'Other (specify)', to represent the major user group cohort. The application will be processed, but a concern may be raised during review.	
Senior/Key Person (R&R)	Profile, senior & key person x, position title	Truncate if greater than 40 characters. No warning message is needed to the submitter.		
Senior/Key Person (R&R)	Profile, senior & key person x, organization name	Needs to be enforced as mandatory.	The organization name for Key Person < Key Person First Name Last Name > must be provided.	
Senior/Key Person (R&R)	Profile, senior & key person x, department			
Senior/Key Person (R&R)	Profile, senior & key person x, division			
Senior/Key Person (R&R)	Profile, senior & key person x, street 1 and 2			
Senior/Key Person (R&R)	Profile, senior & key person x, city			
Senior/Key Person (R&R)	Profile, senior & key person x, county			
Senior/Key Person (R&R)	Profile, senior & key person x, state			

Component	Field	Validation	Error Message	Notes & Tips
Senior/Key	Profile, senior			Long-term, change in eRA db to 13
Person (R&R)	& key person			characters.
	x, zip code			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
	x, country			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
	x, phone			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
	x, fax			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
	x, e-mail			
Senior/Key	Profile, senior	If specified, provide warning if this	The Commons Username < Credential>,	
Person (R&R)	& key person	is not a valid Commons account.	specified for key person <first last<="" name="" td=""><td></td></first>	
	x, credential		Name>, is not a recognized Commons	
			account. The application will be accepted for	
		T	processing.	
		Truncate if greater than 30		
		characters, before comparing to		
		account stored in database. No		
		warning message is needed to the		
		submitter.		
		Must be specified if project role is	The Commons Username has not been	
		'PD/PI'.	specified in the 'Credential' field for PD/PI	
C:/V	D	Far an D26 amplication (activity)	<pre><first last="" name=""> A mentor must be identified for an R36</first></pre>	
Senior/Key	Profile, senior	For an R36 application (activity		
Person (R&R)	& key person	code on funding opportunity = 'R36'), there must be at least one	application. List the mentor as a key person on the Senior Key Person page.	
	x, project role	key person included in addition to	the Senior Key Person page.	
		the PD/PI identified in the PD/PI		
		component.		
		If project role is 'PD/PI', identify		
		in database as Multiple PI.		
Senior/Key	Profile, senior	Accept "Other Project Role	For key person <first last="" name="">, an</first>	
Person (R&R)	& key person	Category" only when "Project	'Other Project Role Category' was submitted	
i erson (K&K)	x, other	Role" is "Other" or "Other	for a project role of <pre><pre>for a project role of <pre><pre><pre><pre>for a project role of <pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	
	project role	Professional"	be used only when Project Role is "Other" or	
	category	1101033101101	"Other Professional".	
	category		Other Horessional .	

Component	Field	Validation	Error Message	Notes & Tips
Senior/Key Person (R&R)	Senior & key person x, Biosketch	Limited to four pages	The Biosketch for Senior/Key Person <first last="" name=""> is longer than four pages.</first>	
Senior/Key Person (R&R)	Senior & key person x, Current and Pending Support	For S10 applications, provide warning if no attachment is provided for any three senior/key persons with project role of 'Other (specify)' or with project role of 'PD/PI'.	Less than 3 Current and Pending Support attachments have been included for the major user group cohort. The application will be processed, but a concern may be raised during review.	This attachment can be received for a PD/PI, or for a senior/key person with a role of 'Other (specify)'. We need to make sure that at least 3 of these attachments are submitted, whether 1 is submitted for the PD/PI and 2 for the senior/key person (with role of 'Other (specify)'), or 3 are submitted for the senior key person (with role of 'Other (specify)').
Senior/Key Person (R&R)	Additional Senior/Key Person Profiles	For version 1.0 of Key Person component, accept only if eight key personnel have been submitted on the Senior/Key Person page. For version 1.1 of Key Person component, accept only if 40 key personnel have been submitted on the Senior/Key Person page.	An Additional Senior/Key Person Profiles attachment may be submitted only if eight senior/key person profiles have been submitted on the Senior/Key Person page. An Additional Senior/Key Person Profiles attachment may be submitted only if 40 senior/key person profiles have been submitted on the Senior/Key Person page.	Additional Senior/Key Person profiles can be submitted only if you've submitted eight key personnel in the Senior/Key Person Profile section.
Senior/Key Person (R&R)	Additional Senior/Key Person Biosketch	Accept only if an Additional Senior/Key Person Profiles attachment has been submitted and accepted.	An Additional Senior/Key Person Biosketch attachment may be submitted only if an Additional Senior/Key Person Profiles attachment has been submitted and accepted.	
Senior/Key Person (R&R)	Additional Senior/Key Person Current and Pending Support	Accept only if an Additional Senior/Key Person Profiles attachment has been submitted and accepted.	An Additional Senior/Key Person Current and Pending Support attachment may be submitted only if an Additional Senior/Key Person Profiles attachment has been submitted and accepted.	

Research & Related Budget: Section A & B, Budget Period 1

Component	Field	Validation	Error Message	Notes & Tips
Budget, A&B, Year x (R&R)	Fleiu	Accept submission of modular budget or detailed budget, but not both Allow a submission with neither a modular budget nor a detailed budget component. For an STTR submission, there must be at least one budget included with budget type of	Both a modular and a detailed budget have been included with this submission. One or the other may be submitted. A Research Institution Budget page must be included for each year of an STTR submission	Budget information is necessary for all applications. Some applications will list both the modular and detailed budget components as "optional". This is to allow the appropriate component to be chosen. Choose one or the other, but not both. In mapping, assign a budget period ID based on the year of the budget.
		subaward/ consortium for each year of the STTR (project) budget.		If you are submitting an STTR application, you must include a Research Institution Budget page for each year of the project (submitted using the Subaward budget type on the budget page).
Budget, A&B, Year x (R&R)	Organization al DUNS	Required for budget type 'Subaward/Consortium'	The Organizational DUNS has not been included for Sections A&B for budget year budget year for <name of="" organization=""></name>	
		One and only one budget should contain the DUNS of the applicant organization.	The Project budget must contain the DUNS number for the applicant organization.	
		This must be a budget that has been identified as 'Project'	A Subaward budget has been identified for the applicant organization. Budgets for the applicant organization should have the 'Project' budget type.	
Budget, A&B, Year x (R&R)	Budget type (project, subaward/ consortium)	If a detailed budget is included, there must be one and only one occurrence with a value of 'Project'.	Only one budget with a budget type of 'Project' for Sections A&B may be submitted.	You can submit only one budget with the budget type "Project" for Sections A&B.
Budget, A&B, Year x (R&R)	Name of organization (for subaward/ consortium)	If multiple detailed budgets have been included in the submission, all budget and warning messages should include the name of the organization for which the budget validation has failed.		Since there is a limit of 250 characters for the error message, put the organization name at the end of the message, and truncate if necessary.

Component	Field	Validation	Error Message	Notes & Tips
Budget, A&B, Year x (R&R)	Start Date	For budget year 1, for Budget Type 'Project', for new applications and resubmissions, must be the same as the Proposed Project Start Date listed on the SF 424 RR Face Page.	For new applications and resubmissions to new applications, the start date for the first budget year for Sections A&B must be the same as the proposed project start date listed on the SF424 RR Face Page	Remember to check start and end dates. For new applications and revisions/amendments to new applications, the start date for the first budget year for Sections A&B must be the same as the proposed project start date listed on the SF424 (R&R) face page.
Budget, A&B, Year x (R&R)	End Date	For an R36 application (activity code on funding opportunity = 'R36'), project period cannot be more than two years long. Define project period by time span between project period start date and project period end date as entered on the SF 424 RR Face Page.	The project period for an R36 application is limited to two years.	
Budget, A&B, Year x (R&R)	Senior/Key Person Name (prefix, first name, middle name, last name, suffix)	Truncate if first or last name>30 chars, or if suffix>5 chars. Display warning.	The <order (first,="" in="" list="" second)=""> Senior/Key Person <element name=""> for budget year budget year> exceeds the NIH limit. The grant image will display the name as submitted; NIH will store the first <database length=""> characters in the eRA database.</database></element></order>	Long-term, change in eRA db to 60 chars for last name, 35 for first name, 10 for suffix (all names in db)
		For Project Role of PD/PI, must match Senior/Key Person form name elements.	The <element name=""> given for the PD/PI for budget year <budget year=""> does not match the name given for the PD/PI on the Senior/Key Person form.</budget></element>	
Budget, A&B, Year x (R&R)	Senior/Key Person Project Role	For budgets of type 'Project', there must be at least one record for the budget year with a project role of PD/PI. Validation does not apply to STTR submissions.	There must be a Personnel entry listed for the PI or PD on the Detailed Budget Page for budget year budget year>.	For an STTR submission, the PI/PD could be on the Research Institution Budget.
Budget, A&B, Year x (R&R)	Senior/Key Person Base Salary			
Budget, A&B, Year x (R&R)	Senior/Key Person Cal. Mos	A non-zero value for calendar months, academic months, or summer months is required for each senior/key person.	Senior/Key Person <first last="" name="">, listed on the Detailed Budget Page, must have the number of calendar months, academic months, or summer months provided.</first>	
Budget, A&B, Year x (R&R)	Senior/Key Person acad. mos	Provide warning if both academic and calendar months have been provided for a person for a budget	Both academic and calendar months have been included for <senior first<br="" key="" person="">Name Last Name>, for budget year <budget< td=""><td></td></budget<></senior>	

Component	Field	Validation	Error Message	Notes & Tips
		year.	year>. If effort does not change throughout the year, use the calendar months column. If effort varies between academic and summer months, leave the calendar months column blank and use only the academic and summer months columns.	
Budget, A&B, Year x (R&R)	Senior/Key Person summer mos	Must be between 1 and 12	The number of summer months may be between 1 and 12 for <senior first="" key="" last="" name="" person="">, for budget year budget year>.</senior>	
Budget, A&B, Year x (R&R)	Senior/Key Person Requested Salary			
Budget, A&B, Year x (R&R)	Senior/Key Person Fringe benefits			
Budget, A&B, Year x (R&R)	Senior/Key Person Funds Requested	Must be equal to the sum of Requested Salary and Fringe Benefits for the Senior/Key Person for the budget year.	The Funds Requested for <senior first="" key="" last="" name="" person="">for Budget Year < Budget Year> does not equal the sum of the Requested Salary and the Fringe Benefits for the corresponding budget year.</senior>	
Budget, A&B, Year x (R&R)	Total funds requested for Senior Key Persons in attachment	Required if Additional Senior Key Persons Attachment is included.	If the Additional Senior Key Persons Attachment is included, the total funds that are requested in the attachment must be provided on the 424 RR Budget Page.	
Budget, A&B, Year x (R&R)	Total Funds requested for all senior/key persons	Must be equal to the sum of Funds Requested for the budget year.	The Total Funds Requested for Budget Year <budget year=""> does not equal the sum of Funds Requested for all Senior/Key Persons for the corresponding budget year.</budget>	
Budget, A&B, Year x (R&R)	Additional Senior Key Persons attachment	Accept only if eight key personnel have been submitted on the budget page for this year.	An Additional Senior/Key Person attachment may be submitted for budget year <budget year=""> only if eight senior/key persons have been submitted on the budget page.</budget>	
Budget, A&B, Year x (R&R)	Other Personnel, (number of personnel)			
Budget, A&B, Year x (R&R)	Other Personnel (Project Role)			

Component	Field	Validation	Error Message	Notes & Tips
Budget, A&B,	Other			
Year x (R&R)	Personnel			
	(Cal. Mos)			
Budget, A&B,	Other			
$Year \ x \ (R\&R)$	Personnel			
	(acad.mos)			
Budget, A&B,	Other			
Year x (R&R)	Personnel			
	(summer			
	mos)			
Budget, A&B,	Other			
$Year \ x \ (R\&R)$	Personnel			
	(Requested			
	salary)			
Budget, A&B,	Other			
$Year \ x \ (R\&R)$	Personnel			
	(Fringe			
	benefits)			
Budget, A&B,	Other	Must be equal to the sum of	The Funds Requested for Other Personnel	
$Year \ x \ (R\&R)$	Personnel	Requested Salary and Fringe	Project Role < Project Role > for Budget Year	
	(Funds	Benefits for the project role for the	<budget year=""> does not equal the sum of the</budget>	
	Requested)	budget year.	Requested Salary and the Fringe Benefits for	
			the corresponding budget year.	
Budget, A&B,	Total number	Must equal the sum of number of	The total number of Other Personnel does not	
$Year \ x \ (R\&R)$	other	personnel for all project roles	equal the sum of the number of other	
	personnel	under Other Personnel.	personnel for all project roles.	
Budget, A&B,	Total Funds	Must be equal to the sum of Funds	The Total Funds Requested for Other	
$Year \ x \ (R\&R)$	Requested	Requested for Other Personnel for	Personnel for Budget Year <budget year=""></budget>	
	other	the budget year.	does not equal the sum of Funds Requested	
	personnel		for all Other Personnel for the corresponding	
			budget year.	
Budget, A&B,	Total salary,	Must equal the sum of Total Funds	The Total Salary, Wages and Fringe Benefits	
$Year \ x \ (R\&R)$	wages and	requested for all senior/key persons	for Budget Year <budget year=""> does not</budget>	
	fringe	and Total Funds Requested other	equal the sum of Total Funds requested for all	
	benefits	personnel	senior/key persons and Total Funds Requested	
			for other personnel	

Research & Related Budget: Section C, D, & E, Budget Period 1

Component	Field	Validation	Error Message	Notes & Tips
Budget, C, D, E,	Equipment			
Year x (R&R)	description,			
	equipment			
	item			
Budget, C, D, E,	Equipment			
$Year \ x \ (R\&R)$	description,			
	funds req			
Budget, C, D, E,	Equipment			
Year x (R&R)	description,			
	total funds			
	requested in			
	attachment			
Budget, C, D, E,	Equipment	Must be equal to the sum of Funds	The Total Funds Requested for Equipment for	
$Year \ x \ (R\&R)$	description,	Requested for equipment for the	Budget Year < Budget Year > does not equal	
	total	budget year.	the sum of Funds Requested for all Equipment	
Devile et C. D. E.	equipment		Items for the corresponding budget year.	
Budget, C, D, E,	Additional			
$Year \ x \ (R\&R)$	equipment attachment			
Budget, C, D, E,	Travel,			
Year x ($R\&R$)	domestic			
Tear x (Ran)	travel costs			
Budget, C, D, E,	Travel,			
Year x (R&R)	foreign travel			
(costs			
Budget, C, D, E,	Total travel	Must be equal to the sum of	The Total Travel Cost for Budget Year <	
Year x (R&R)	cost	domestic travel costs and foreign	Budget Year> does not equal the sum of	
		travel costs for the budget year.	Domestic Travel Costs and Foreign Travel	
			Costs for the corresponding budget year.	
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	tuition			
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	stipends			

Component	Field	Validation	Error Message	Notes & Tips
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	travel			
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	subsistence			
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	other			
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	description of			
	other			
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	number of			
	Participants/			
	Trainees			
Budget, C, D, E,	Participant/	Must be equal to the sum of	The Total Participant/Trainee Support Costs	
Year x (R&R)	trainee	participant/trainee support costs for	for Budget Year < Budget Year > does not	
	support costs:	the budget year.	equal the sum of Participant/trainee support	
	Total		costs for the corresponding budget year.	
	Participant/			
	Trainee			
	Support Costs			

Research & Related Budget: Section F-K, Budget Period 1

Component	Field	Validation	Error Message	Notes & Tips
Budget, F-K,	Other Direct			
Year x (R&R)	Costs			
	(materials &			
	supplies)			
Budget, F-K,	Other Direct			
Year x (R&R)	Costs			
	(Publication			
	Costs)			
Budget, F-K,	Other Direct			
Year x (R&R)	Costs			
	(Consultant			
	Services)			
Budget, F-K,	Other Direct			
Year x (R&R)	Costs (ADP/			
	Computer			
	Services			
Budget, F-K,	Other Direct	If specified for budget type	The Applicant Organization Other Direct	
Year x (R&R)	Costs	'Project', provide warning if not	Costs (Subawards/Consortium/Contractual	
	(Subawards/	equal to the sum of Total Direct	Costs) is not equal to the sum of Total Direct	
	Consortium/	and Indirect Costs for all	and Indirect Costs for all	
	Contractual	consortium/contractual budgets.	consortium/contractual organizations.	
D 1 - E 17	Costs)			
Budget, F-K,	Other Direct			
Year x (R&R)	Costs			
	(Equipment			
	or Facility Rental/ User			
	Fees)			
Budget, F-K,	Other Direct			
Year x (R&R)	Costs			
Teur x (NON)	(Alterations			
	and			
	Renovations)			
Budget, F-K,	Other Direct			
Year x (R&R)	Costs (other			
Tear x (nan)	description 1)			
	description 1)			ļ

Component	Field	Validation	Error Message	Notes & Tips
Budget, F-K,	Other Direct			
Year x (R&R)	Costs (other1			
	funds			
	requested)			
Budget, F-K,	Other Direct			
$Year \ x \ (R\&R)$	Costs (other			
	description 2)			
Budget, F-K,	(other2 funds			
$Year \ x \ (R\&R)$	requested)			
Budget, F-K,	Other Direct			
$Year \ x \ (R\&R)$	Costs (other			
	description 3)			
Budget, F-K,	(other3 funds			
$Year \ x \ (R\&R)$	requested)			
Budget, F-K,	Other Direct	Must be equal to the sum of other	The Total Other Direct Costs for Budget Year	
$Year \ x \ (R\&R)$	Costs, Total	direct costs for the budget year.	<budget year=""> does not equal the sum of</budget>	
	Other Direct		other direct costs for all categories for the	
	Costs		corresponding budget year.	
Budget, F-K,	Total Direct	Required.	The Total Direct Costs Funds Requested for	
$Year \ x \ (R\&R)$	Costs (A-F)		Year x is required.	
		Must be equal to the sum of total	The Total Direct Costs for A-F for Budget	
		salary, wages and fringe benefits,	Year <budget year=""> does not equal the sum</budget>	
		total funds requested for	of direct costs for Sections A-F.	
		equipment, total travel cost, total		
		participant/trainee support costs,		
		and total other direct costs	D01 D02 D15 1 D21 1 1 1	
		For non-SBIR/STTR, non-R13 and	R01, R03, R15, and R21 direct cost requests	
		non-U13, non-R36, and non-Opdiv submissions, provide warning if	of \$250K or less each year must be in	
		subtotal direct costs for <i>every</i>	modules of \$25K, using the PHS 398 Modular Budget Form and not the R&R Budget Form.	
		budget year is \leq = \$250K.	Incorrect applications may be delayed in the	
		Calculate subtotal direct costs as	peer review process or rejected.	
		follows: Total Direct Costs (A-F)	peer review process or rejected.	
		minus the sum of Total Indirect		
		Costs for all budgets for the		
		corresponding year with budget		
		type 'subaward/consortium'.		
		type subawaru/consortium .		

Component	Field	Validation	Error Message	Notes & Tips
•		For non-SBIR/STTR submissions,	Direct cost requests >=\$500k a year need	•
		provide warning if subtotal direct	agreement from ICs, except for RFAs or PAs	
		costs for <i>any</i> budget year is >=	with budgetary limits. Applications without	
		500K. Calculate subtotal direct	such approval may be delayed in the peer	
		costs as follows: Total Direct Costs	review process or rejected.	
		(A-F) <i>minus</i> the sum of Total		
		Indirect Costs for all budgets for		
		the corresponding year with budget		
		type 'subaward/consortium'.		
Budget, F-K,	Indirect	Allow submissions to come in with		
$Year \ x \ (R\&R)$	Costs,	no indirect costs.		
	Indirect Cost			
	Type			
Budget, F-K,	Indirect	Provide warning if less than 1.	The Indirect Cost Rate is less than 1 for	
Year x (R&R)	Costs,		budget Year <budget year="">. Please note that</budget>	
	Indirect Cost		this figure represents a percentage (e.g.,	
D 1 E 77	Rate		'25.5', not '.255').	
Budget, F-K,	Indirect			
Year x (R&R)	Costs,			
	Indirect Cost			
D I . F.V	Base			
Budget, F-K,	Indirect			
Year x (R&R)	Costs, Funds Requested			
Budget, F-K,	Indirect			
Year x (R&R)	Costs,			
Tear x (K&K)	Costs, Cognizant			
	Federal			
	Agency			
Budget, F-K,	Total Indirect	Must be equal to funds requested	The Total Indirect Costs for Budget Year	
Year x (R&R)	Costs	for all indirect cost types	Sudget Year does not equal the sum of	
1000 10 (110011)	00000	Ter un muneer eest types	indirect costs for each indirect cost type.	
Budget, F-K,	Total Direct	Required	The Total Direct and Indirect Costs Funds	
<i>Year x (R&R)</i>	and Indirect	_	Requested for Year x is required.	
	Costs	Must be equal to the sum of Total	The Total Direct and Indirect Institutional	
	!	Direct Costs and Total Indirect	Costs is not equal to the sum of Total Other	
	,	Costs	Direct Costs and Total Indirect Costs.	
Budget, F-K,	Fee	A fee cannot be entered for a	A fee has been entered for year $\langle x \rangle$ of the	
Year x (R&R)	1	subaward/consortium budget.	budget for <organization name="">. Fees are not</organization>	
			allowed for subaward/consortium budgets.	

Component	Field	Validation	Error Message	Notes & Tips
-		For an SBIR/STTR submission, for	The fee that has been entered for year <x> of</x>	•
		budget type 'project', fee can't	the Project budget exceeds 7% of the Total	
		exceed 7% of Total Direct and	Direct and Indirect Costs.	
		Indirect Costs		
Budget, F-K,	Budget	If fee is requested, must not be	A fee has been entered for year $\leq x >$ of the	
$Year \ x \ (R\&R)$	Justification	blank or null	Project budget. A Budget Justification must be	
			included if a fee has been entered.	
		If SBIR/STTR Phase I cost	The Phase I cost limitation of 100k has been	
		limitation is exceeded, must not be	exceeded. Please explain the deviation in the	
		blank or null. Cost limitation is	Budget Justification.	
		100k, calculated as total cost		
		(direct cost, indirect cost, and fee).		
		If SBIR/STTR Phase II cost	The Phase II cost limitation of 750k has been	
		limitation is exceeded, must not be	exceeded. Please explain the deviation in the	
		blank or null. Cost limitation is	Budget Justification.	
		750k, calculated as total cost		
		(direct cost, indirect cost, and fee).	THE TO A TO 1 1 11 11 11 11 11 11 11 11 11 11 11 1	
		If Fast-Track cost limitation is	The Fast-Track cost limitation of 850k has	
		exceeded, must not be blank or	been exceeded. Please explain the deviation in	
		null. Cost limitation is 850k, calculated as total cost (direct cost,	the Budget Justification.	
		indirect cost, and fee).		
		If Phase I SBIR time limitation is	The Phase I SBIR time limitation of six	Since there is no cumulative budget
		exceeded, must not be blank or	months has been exceeded. Please explain the	justification, this validation will look at the
		null. Time limitation is six months.	deviation in the Budget Justification.	Budget Justification for the first budget
		calculated as the time between the	deviation in the Budget Justification.	period. Instructions should include this.
		start date of the first budget period		period. Instructions should include this.
		and the end date of the last budget		
		period.		
		If Phase I STTR time limitation is	The Phase I STTR time limitation of one year	Since there is no cumulative budget
		exceeded, must not be blank or	has been exceeded. Please explain the	justification, this validation will look at the
		null. Time limitation is one year,	deviation in the Budget Justification.	Budget Justification for the first budget
		calculated as the time between the		period. Instructions should include this.
		start date of the first budget period		
		and the end date of the last budget		
		period.		
		If Phase II SBIR/STTR time	The Phase II SBIR/STTR time limitation of	Since there is no cumulative budget
		limitation is exceeded, must not be	two years has been exceeded. Please explain	justification, this validation will look at the
		blank or null. Time limitation is	the deviation in the Budget Justification.	Budget Justification for the first budget
		two years, calculated as the time		period. Instructions should include this.
		between the start date of the first		
		budget period and the end date of		
		the last budget period.		

Research & Related Budget: Cumulative Budget

Component	Field	Validation	Error Message	Notes & Tips
Cumulative	Section A,	Must be equal to the sum of Total	The Cumulative Budget Senior/Key Person	
Budget (R&R)	Senior/Key	Funds Requested for all senior/key	Total does not equal the sum of Total Funds	
	Person Total	persons for every budget year for	Requested for all senior/key persons for all	
		this budget.	budget years.	
Cumulative	Section B,	Must be equal to the sum of Total	The Cumulative Budget Other Personnel Total	
Budget (R&R)	Other	Funds Requested for Other	does not equal the sum of Total Funds	
	Personnel	Personnel for every budget year for	Requested for Other Personnel for all budget	
	Total	this budget.	years.	
Cumulative	Total Number	Must be equal to the sum of Total	The Cumulative Budget Total Number Other	
Budget (R&R)	other	Number Other Personnel for every	Personnel does not equal the sum of Total	
	personnel	budget year for this budget.	Number Other Personnel for all budget years.	
Cumulative	Total Salary,	Must be equal to the sum of Total	The Cumulative Budget Total Salary, Wages,	
Budget (R&R)	Wages, and	Salary, Wages, and Fringe Benefits	and Fringe Benefits do not equal the sum of	
	Fringe	for every budget year for this	Total Salary, Wages, and Fringe Benefits for	
	Benefits	budget.	all budget years.	
Cumulative	Section C,	Must be equal to the sum of Total	The Cumulative Budget Total Funds	
Budget (R&R)	Equipment	Funds Requested For Equipment	Requested For Equipment does not equal the	
	Totals	for every budget year for this	sum of Total Funds Requested For Equipment	
		budget.	for all budget years.	
Cumulative	Section D,	Must be equal to the sum of Total	The Cumulative Budget Total Travel Cost	
Budget (R&R)	Travel, Total	Travel Cost for every budget year	does not equal the sum of Total Travel Costs	
		for this budget.	for all budget years.	
Cumulative	Section D,	Must be equal to the sum of	The Cumulative Budget Domestic Travel Cost	
Budget (R&R)	Travel,	Domestic Travel Cost for every	does not equal the sum of Domestic Travel	
	Domestic	budget year for this budget.	Costs for all budget years.	
Cumulative	Section D,	Must be equal to the sum of	The Cumulative Budget Foreign Travel Cost	
Budget (R&R)	Travel,	Foreign Travel Cost for every	does not equal the sum of Foreign Travel	
C L:	Foreign	budget year for this budget.	Costs for all budget years.	
Cumulative	Section E,	Must be equal to the sum of Total	The Cumulative Budget Total	
Budget (R&R)	Participant/	Participant/Trainee Support Costs	Participant/Trainee Support Costs does not	
	Trainee, Total	for every budget year for this	equal the sum of Total Participant/Trainee	
C	G 4: E	budget.	Support Costs for all budget years.	
Cumulative	Section E,	Must be equal to the sum of	The Cumulative Budget Participant/Trainee,	
Budget (R&R)	Participant/	Participant/Trainee, Tuition, Fees,	Tuition, Fees, Health Insurance Costs does not	
	Trainee,	Health Insurance Costs for every	equal the sum of Participant/Trainee, Tuition,	
	Tuition, Fees,	budget year for this budget.	Fees, Health Insurance Costs for all budget	
	Health		years.	
	Insurance			

Component	Field	Validation	Error Message	Notes & Tips
Cumulative	Section E,	Must be equal to the sum of	The Cumulative Budget Participant/Trainee,	
Budget (R&R)	Participant/	Participant/Trainee, Stipends Costs	Stipends Costs does not equal the sum of	
	Trainee,	for every budget year for this	Participant/Trainee, Stipends Costs for all	
	Stipends	budget.	budget years.	
Cumulative	Section E,	Must be equal to the sum of	The Cumulative Budget Participant/Trainee,	
Budget (R&R)	Participant/	Participant/Trainee, Travel Costs	Travel Costs does not equal the sum of	
	Trainee,	for every budget year for this	Participant/Trainee, Travel Costs for all	
	Travel	budget.	budget years.	
Cumulative	Section E,	Must be equal to the sum of	The Cumulative Budget Participant/Trainee,	
Budget (R&R)	Participant/	Participant/Trainee, Subsistence	Subsistence Costs does not equal the sum of	
	Trainee,	Costs for every budget year for this	Participant/Trainee, Subsistence Costs for all	
	Subsistence	budget.	budget years.	
Cumulative	Section E,	Must be equal to the sum of	The Cumulative Budget Participant/Trainee,	
Budget (R&R)	Participant/	Participant/Trainee, Other Costs	Other Costs does not equal the sum of	
	Trainee,	for every budget year for this	Participant/Trainee, Other Costs for all budget	
	Other	budget.	years.	
Cumulative	Section E,	Must be equal to the sum of the	The Cumulative Budget Number of	
Budget (R&R)	Participant/	Number of Participants/Trainees	Participants/Trainees does not equal the sum	
	Trainee,	for every budget year for this	of the Number of Participants/Trainees for all	
	Number	budget.	budget years.	
Cumulative	Section F,	Must be equal to the sum of Other	The Cumulative Budget Other Direct Costs	
Budget (R&R)	Other Direct	Direct Costs for every budget year	does not equal the sum of Other Direct Costs	
	Costs, Total	for this budget.	for all budget years.	
Cumulative	Section F,	Must be equal to the sum of Other	The Cumulative Budget Other Direct Costs,	
Budget (R&R)	Other Direct	Direct Costs, Materials and	Materials and Supplies, does not equal the	
	Costs,	Supplies, for every budget year for	sum of Other Direct Costs, Materials and	
	Materials and	this budget.	Supplies, for all budget years.	
	Supplies			
Cumulative	Section F,	Must be equal to the sum of Other	The Cumulative Budget Other Direct Costs,	
Budget (R&R)	Other Direct	Direct Costs, Publication Costs, for	Publication Costs, does not equal the sum of	
	Costs,	every budget year for this budget.	Publication Costs for all budget years.	
	Publication			
	Costs			_
Cumulative	Section F,	Must be equal to the sum of Other	The Cumulative Budget Other Direct Costs,	
Budget (R&R)	Other Direct	Direct Costs, Consultant Services,	Consultant Services, does not equal the sum of	
	Costs,	for every budget year for this	Consultant Services for all budget years.	
	Consultant	budget.		
	Services			

Component	Field	Validation	Error Message	Notes & Tips
Cumulative	Section F,	Must be equal to the sum of Other	The Cumulative Budget Other Direct Costs,	·
Budget (R&R)	Other Direct	Direct Costs, ADP/Computer	ADP/Computer Services, does not equal the	
	Costs, ADP/	Services, for every budget year for	sum of ADP/Computer Services for all budget	
	Computer	this budget.	years.	
	Services			
Cumulative	Section F,	Must equal the sum of Other Direct	The Cumulative Budget Section F, Other	
Budget (R&R)	Other Direct	Costs, Subawards/Consortium/	Direct Costs, Subaward/Consortium/	
	Costs, sub,	Contractual Costs, for every	Contractual, does not equal the sum of Other	
	consortium,	budget year for this budget.	Direct Costs, Subawards/Consortium/	
	contractual		Contractual Costs for all budget years.	
Cumulative	Section F,	Must be equal to the sum of Other	The Cumulative Budget Other Direct Costs,	
Budget (R&R)	Other Direct	Direct Costs, Equipment or	Equipment or Facility Rental, does not equal	
	Costs, Equip	Facility Rental, for every budget	the sum of Equipment or Facility Rental for	
	or facility	year for this budget.	all budget years.	
C 1 .:	rental	M 11 11 1 COI	TI C 11' D 1 (O1 D' (C)	
Cumulative	Section F, Other Direct	Must be equal to the sum of Other	The Cumulative Budget Other Direct Costs,	
Budget (R&R)		Direct Costs, Alterations and	Alterations and Renovations, does not equal the sum of Alterations and Renovations for all	
	Costs,	Renovations, for every budget year		
	Alterations and	for this budget.	budget years.	
	Renovations			
Cumulative	Section F,	Must be equal to the sum of Other	The Cumulative Budget Other Direct Costs,	
Budget (R&R)	Other Direct	Direct Costs, Other, for every	Other, does not equal the sum of Other Direct	
Buaget (RCR)	Costs, other	budget year for this budget.	Costs, Other for all budget years.	
Cumulative	Section G,	Required.	The Cumulative Budget Direct Costs is	
Budget (R&R)	Direct Costs	required.	required.	
Ziidger (Teerr)	(A-F), total	Must be equal to the sum of Total	The Cumulative Budget Total Direct Costs	
	(),	Direct Costs for every budget year	does not equal the sum of Total Direct Costs	
		for this budget.	for all budget years.	
Cumulative	Section H,	Must be equal to the sum of Total	The Cumulative Budget Total Indirect Costs	
Budget (R&R)	Indirect Costs	Indirect Costs for every budget	does not equal the sum of Total Indirect Costs	
		year for this budget.	for all budget years.	
Cumulative	Section I,	Required	The Cumulative Budget Total Direct and	
Budget (R&R)	Total Direct	_	Indirect Costs are required.	
	and Indirect	Must be equal to the sum of Total	The Cumulative Budget Total Direct and	
	Costs	Direct and Indirect Costs for every	Indirect Costs do not equal the sum of Total	
		budget year for this budget.	Direct and Indirect Costs for all budget years.	
Cumulative	Section J, Fee	Must be equal to the sum of Fee	The Cumulative Budget Fee does not equal	
Budget (R&R)		for every budget year for this	the sum of the Fee for all budget years.	
		budget.		

Component	Field	Validation	Error Message	Notes & Tips
Cumulative	Budget			
Budget (R&R)	Justification			
	(attachment)			

SBIR/STTR Information

Component	Field	Validation	Error Message	Notes & Tips
SBIR/STTR	Program	One and only one choice may be	Please select one Program Type: SBIR or STTR.	
(NIH)	Type (SBIR, STTR, Both)	made. 'Both' is not a valid choice.	For NIH submissions, 'Both' is not an acceptable value for the 'Program Type' field on the SBIR/STTR Information Component.	
SBIR/STTR (NIH)	SBIR/STTR Type (Phase I, Phase II, Fast-Track)	One and only one choice may be made.	Please select one SBIR/STTR Type: Phase I, Phase II, or Fast-Track.	
SBIR/STTR (NIH)	Question 1. Small Business Eligibility (Y/N)	Required.		
SBIR/STTR (NIH)	Question 2. Are Subcontracts Included? (Y/N)	Required.		
SBIR/STTR (NIH)	Name of Labs/ Agencies For Subcontracts	Required entry if response to 'Are Subcontracts Included?' is 'Yes'.	If Question 2 on the SBIR/STTR form indicates that subcontracts are included, the name(s) of labs or agencies for subcontracts must be included.	
		Cannot be included if response to 'Are Subcontracts Included?' is 'No'.	If Question 2 on the SBIR/STTR form indicates that subcontracts are not included, the name(s) of labs or agencies for subcontracts cannot be included.	
SBIR/STTR (NIH)	Question 3. Located in HUBZone (Y/N)	Required.		
SBIR/STTR (NIH)	Question 4. Research to be Performed in US? (Y/N)	Required.		

Component	Field	Validation	Error Message	Notes & Tips
SBIR/STTR (NIH)	Explanation of Foreign Performance	Must be included if answer to 'work to be performed in US' question is 'no'.	If Question 4 on the SBIR/STTR form indicates that research is not to be performed in the US, an explanation attachment must be	·
		Cannot be included if answer to 'work to be performed in US' question is 'yes'.	provided. If Question 4 on the SBIR/STTR form indicates that research is to be performed in the US, an explanation attachment cannot be provided.	
SBIR/STTR (NIH)	Question 5. Equivalent Submissions (Y/N)	Required.		
SBIR/STTR (NIH)	Names of other Federal agencies for equivalent work	Required entry if answer to 'submittal of equivalent work to other agencies' question is 'yes'. Cannot be included if answer to 'submittal of equivalent work to other agencies' question is 'no'.		
SBIR/STTR (NIH)	Question 6. Disclosure Permission Statement (Y/N)	Required		
SBIR/STTR (NIH)	Commercializ ation Plan Attachment	Required for Phase II and Fast Track submissions Cannot be submitted for anything other than Phase II or Fast Track submissions Limited to 15 pages.	The Commercialization Plan is required for Phase II and Fast Track submissions A Commercialization Plan can only be submitted for Phase II and Fast Track submissions The Commercialization Plan is limited to 15 pages	
SBIR/STTR (NIH)	Question 8. Receipt of Phase II SBIR Awards (Y/N)	Required for SBIR		
SBIR/STTR (NIH)	Company Commercializ ation History Attachment			

Component	Field	Validation	Error Message	Notes & Tips
SBIR/STTR	Question 9.	Required for SBIR		
(NIH)	SBIR PD/PI			
	Primary			
	Employment			
	(Y/N)			
SBIR/STTR	Question 10.	Required for STTR		
(NIH)	STTR PD/PI			
	Commitment			
	(Y/N)			
SBIR/STTR	Question 11.	Required for STTR		
(NIH)	STTR work			
	percentages			
	(Y/N)			

PHS 398 Cover Page Supplement

Component	Field	Validation	Error Message	Notes & Tips
Cover Page (NIH)	PD/PI Information (prefix, first, middle, last, suffix)	Read only, pulled from R&R		
Cover Page (NIH)	PD/PI New Investigator Question			
Cover Page (NIH)	PD/PI Degrees	Match against 4 character degree codes in PI's Commons account (ignore case, spaces, or punctuation). If it does not match anything on list, compare against any 'other degree text' degrees on Commons account. If degree not found on the degree list or on 'other degree text' entries for the PI, display a warning to the PI that the degrees did not match the Commons account, and that the submitted degrees will be displayed on the grant image. "The degrees that will be displayed on the grant image are x, y, and z". In db, save the top three Commons degrees instead of the submitted degrees in the role.	The PD/PI degree: <degree> is not one of the degrees listed for the NIH eRA Commons account: <credential>. The grant image will display the degrees as submitted.</credential></degree>	Be sure to include your educational degrees (by code) as listed in the eRA Commons. The system will compare your application with the information in the eRA Commons profile. If the degrees don't match, the degrees you submit in the application will be displayed in the grant image but the top 3 degrees listed in the Commons account will be saved in the database. Post-testing solution: Provide warning that Commons degrees are xxxx and degrees submitted through grants.gov are yyyy and we will be displaying the top three Commons degrees. Provide ability for submitter to update the Commons account and to regenerate the image to display the updated information from the Commons account.
		Provide a warning if no degrees have been included.	No degrees have been submitted for the PD/PI. If you want the degrees to be displayed on the face page of the grant image, you should include them on the PHS 398 Cover Page Supplement.	
Cover Page (NIH)	Human Subjects Clinical Trial (Y/N)	An answer is required if the answer to 'Human Subjects Involved' is "Yes". If Human Subjects NIH-Defined Phase III Clinical Trial is true, must be true.	The Human Subjects Clinical Trial question must be answered if the answer to 'Human Subjects Involved' is "Yes". The Human Subjects Clinical Trial question must be "Yes" if the answer to Human Subjects NIH-Defined Phase III Clinical Trial is "Yes".	

Component	Field	Validation	Error Message	Notes & Tips
		For S10 application, provide a warning if this is true.	The answer to the Human Subjects Clinical Trial question should not be 'Yes'. The application will be processed, but a concern may be raised during review.	
Cover Page (NIH)	Human Subjects NIH-Defined Phase III	An answer is required if the answer to 'Human Subjects Clinical Trial' is "Yes".	The Human Subjects NIH-Defined Phase III Clinical Trial question must be answered if the answer to the Human Subjects Clinical Trial question is "Yes".	
	Clinical Trial (Y/N)	If Human Subjects Clinical Trial is false, must be false	The Human Subjects NIH-Defined Phase III Clinical Trial must be "No" if the answer to the Human Subjects Clinical Trial question is "No".	
Cover Page (NIH)	Applicant Organization Contact Information	Read only, pulled from R&R		
Cover Page (NIH)	Applicant Organization Contact Title			
Cover Page (NIH)	Applicant Organization Contact Street Address (1 and 2)	If either line>50 characters, truncate and display warning.	Street < <i>n</i> > of the Applicant Organization exceeds the NIH limit of 50 characters. The grant image will display the address as submitted; NIH will store the first 50 characters only.	
Cover Page (NIH)	Applicant Organization Contact City			
Cover Page (NIH)	Applicant Organization Contact County			
Cover Page (NIH)	Applicant Organization Contact State	Required if country is US or Canada. If country is not US or Canada must be blank.	The Applicant Organization State must be supplied for US and Canadian addresses. The Applicant Organization State should be blank for all countries other than the United States and Canada.	
		Transform state name to 2 char abbreviation before validating and storing. If state name can't be transformed, give error.	The Applicant Organization State is not a valid state name.	

Component	Field	Validation	Error Message	Notes & Tips
Cover Page (NIH)	Applicant Organization Contact Zip	Required if country is US.	The Applicant Organization Zip Code must be entered for US addresses.	Long-term, change in eRA db to 13 characters.
	Code	Must be 5 or 9 numeric digits if country is US. If >9 characters, truncate and display warning (remove any dashes before truncating).	The Applicant Organization Zip Code must be entered in 5-digit or 9-digit format. The Applicant Organization Zip Code has more than 9 digits. The grant image will display the zip code as submitted; NIH will store the first 9 digits in the eRA database.	
Cover Page (NIH)	Applicant Organization Contact Country	Must be a valid ISO 3166-1 alpha-3 country code.	The Applicant Organization country code provided (<country>) is not a valid ISO 3166-1 alpha-3 country code.</country>	
Cover Page (NIH)	HESC Involved (Y/N)	For S10 application, display a warning if this is true.	The answer to the HESC Involved question should be 'No'. The application will be processed, but a concern may be raised during review.	
				Change mapping: set Special Topic code to 13 if HESC Involved is 'yes'. This code is set in appl_special_topics_t.
Cover Page (NIH)	HESC Cell Lines	If HESC involved='Y', must include this or 'Can't be Referenced'	If the answer to 'HESC involved' is "Yes", HESC Cell Lines must be included or the 'Can't be Referenced' checkbox must be checked.	For the Human Embryonic Stem Cells (HESC) section, if you answer Yes, you must list the cell lines in the boxes provided or check the box "Specific stem cell line cannot be referenced at this time. One from the registry will be used."
		If HESC involved='N', can't include this or 'Can't be Referenced'	If the answer to 'HESC involved' is "No", HESC Cell Lines may not be included and the 'Can't be Referenced' checkbox must not be checked.	
		If specific stem cell line is included, must be a valid stem cell line in eRA database. Comparison should not be case-sensitive.	Stem cell line <cell line="" number=""> is not a valid stem cell line number.</cell>	
		If 'Can't Be Referenced' is checked, no other cell lines may be entered.	If the 'Can't be Referenced' checkbox is checked, no other stem cell lines may be entered.	
Cover Page (NIH)	HESC 'can't be referenced' checkbox	If HESC involved='Y', must include this or 'HESC Cell Lines'	If the answer to 'HESC involved' is "Yes", HESC Cell Lines must be included or the 'Can't be Referenced' checkbox must be checked.	

Component	Field	Validation	Error Message	Notes & Tips
		If HESC involved='N', can't	If the answer to 'HESC involved' is "No",	
		include this or 'HESC Cell Lines'	HESC Cell Lines may not be included and the	
			'Can't be Referenced' checkbox must not be	
			checked.	

PHS 398: Modular Budget

Component	Field	Validation	Error Message	Notes & Tips
Modular		Accept submission of modular	Both a modular and a detailed budget have	
Budget, Years		budget or detailed budget, but not	been included with this submission. One or	
1-5 (NIH)		both	the other may be submitted.	
		Do not accept a modular budget for	Modular budgets may not be submitted for	
		R13 applications (activity code on	Conference Grant applications.	
		funding opportunity = 'R13' or 'U13')		
		For an R15 application (activity	An AREA grant should be submitted for one	
		code on funding opportunity =	budget period only. This may delay the peer	
		'R15'), return warning if more than	review process.	
		one budget period has been		
		included.		
		Do not accept a modular budget for	Modular budgets may not be submitted for	
		SBIR/STTR applications	SBIR/STTR submissions.	
Modular	Start Date	For budget period 1, for new	For new applications and resubmissions-of	
Budget, Years		applications and revisions to new	new applications (revisions), the modular	
1-5 (NIH)		applications, must be the same as	budget year 1 start date must be the same as	
		the Project Start Date listed on the	the proposed project start date listed on the SF	
76.7.7	T 15 /	SF 424 RR Face Page	424 RR Face Page.	
Modular	End Date	Budget period end date must be	The modular budget year <budget year=""> end</budget>	
Budget, Years		greater than budget period start	date must be later than the modular budget	
1-5 (NIH)		date.	year budget year> start date.	
		For an R15 application (activity code on funding opportunity =	The project period for AREA grant applications is limited to three years. The	
		'R15'), return warning if project	applications is infinited to three years. The application will be accepted, but may be	
		period is more than three years	delayed in the peer review process.	
		long. Define project period by time	delayed in the peer review process.	
		span between project period start		
		date and project period end date as		
		entered on the SF 424 RR Face		
		Page.		

Component	Field	Validation	Error Message	Notes & Tips
		For an R36 application (activity code on funding opportunity = 'R36'), project period cannot be more than two years long. Define project period by time span between project period start date and project period end date as entered on the SF 424 RR Face Page.	The project period for an R36 application is limited to two years.	
Modular Budget, Years 1-5 (NIH)	Direct Costs, Direct Cost Less Consortium, F&A	Must be <= 250K, must be a multiple of 25K for each budget year For R15 submissions, provide warning if this value for <i>any</i> budget year is >= 150K.	The total direct costs for modular budget year budget year> are greater than \$250K, or are not in increments of \$25K. Direct cost requests are limited to \$150k a year for AREA grants. Applications that exceed this limit may be delayed in the peer review process or rejected.	
Modular Budget, Years 1-5 (NIH)	Direct Costs, Consortium, F&A	Must be less than 10,000,000,000	For NIH processing, the Consortium F&A amount must be less than 10,000,000,000.	Grants.gov accepts up to 14 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Years 1-5 (NIH)	Direct Costs, Total Direct Costs	Must equal sum of Direct Cost Less Consortium, F&A and Consortium, F&A for the corresponding budget year (if both are submitted). If only Direct Cost Less Consortium, F&A is submitted for that budget year, must equal that.	The total direct costs for modular budget year do not equal the sum of Direct Cost Less Consortium, F&A and Consortium, F&A	
		Must be less than 10,000,000,000	For NIH processing, the Total Direct Costs amount must be less than 10,000,000,000.	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Years 1-5 (NIH)	Indirect Costs, Indirect Cost Type 1-4			
Modular Budget, Years 1-5 (NIH)	Indirect Costs, Indirect Cost Rate 1-4	Provide warning if greater than 0 and less than 1.	Indirect Cost Rate is less than 1 for budget year budget year>. Please note that this figure represents a percentage.	

Component	Field	Validation	Error Message	Notes & Tips
Modular Budget, Years 1-5 (NIH)	Indirect Costs, Indirect Cost Base 1-4	Must be less than 10,000,000,000	For NIH processing, the Indirect Cost Base amount for budget year <budget year=""> must be less than 10,000,000,000.</budget>	Grants.gov accepts up to 14 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Years 1-5 (NIH)	Indirect Costs, Funds Requested 1-4	Must be equal to product of Indirect Cost Rate and Indirect Cost Base for the same year, assuming both elements have been provided	Indirect Cost Funds Requested for budget year dudget year> must equal the product of Indirect Cost Rate and Indirect Cost Base for the same year	
		Must be less than 10,000,000,000	For NIH processing, the Funds Requested amount must be less than 10,000,000,000.	Grants.gov accepts up to 14 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Years 1-5 (NIH)	Indirect Costs, Cognizant Agency			
Modular Budget, Years 1-5 (NIH)	Indirect Costs, Indirect Cost Rate Agreement Date			
Modular Budget, Years 1-5 (NIH)	Indirect Costs, Total Indirect Costs	Must equal sum of Indirect Costs, Funds Requested 1-4 for the corresponding budget year, if any Indirect Costs were entered.	The Total Indirect Costs do not equal the sum of Funds Requested for budget year <budget year=""></budget>	
		Must be less than 10,000,000,000	For NIH processing, the Total Indirect Costs amount must be less than 10,000,000,000.	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Years 1-5 (NIH)	Total Direct and Indirect Costs, Funds Requested	Must be greater than 0 for first budget period. Must be equal to the sum of Total Direct Costs and Total Indirect Costs for the corresponding budget period.	For Modular Budget Year 1, Total Direct and Indirect Costs must be greater than zero For Modular Budget Year <budget year="">, the Total Direct and Indirect Costs must be equal to Total Direct Costs plus Total Indirect Costs requested for that budget year.</budget>	
		Must be less than 10,000,000,000	For NIH processing, the Total Direct and Indirect Costs amount must be less than 10,000,000,000.	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.

PHS 398 Modular Budget: Period 5 and Cumulative

Component	Field	Validation	Error Message	Notes & Tips
Modular	Total Direct	Must be equal to the sum of all	The Total Direct Cost less Consortium F&A	
Budget,	Cost less	Total Direct Cost less Consortium	for Entire Project Period must be equal to the	
Cumulative	Consortium	F&A values for all budget years	sum of Total Direct Cost Less Consortium	
(NIH)	F&A for		F&A values for all budget years	
	Entire Project			
	Period			
Modular	Total	Must be equal to the sum of all	The Total Consortium F&A for Entire Project	
Budget,	Consortium	Consortium F&A values for all	Period must be equal to the sum of	
Cumulative	F&A for	budget years	Consortium F&A values for all budget years	
(NIH)	Entire Project Period	Must be less than 10,000,000,000	For NIH processing, the Total Consortium F&A for Entire Project Period amount must be less than 10,000,000,000.	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular	Total Costs,	Must be equal to the sum of Total	The Total Direct Costs for the Entire Proposed	
Budget,	Total Direct	Direct Costs for all budget years	Project Period must be equal to the sum of the	
Cumulative	Costs for		Total Direct Costs for all budget years	
(NIH)	Entire Project Period	Must be less than 10,000,000,000	For NIH processing, the Total Direct Costs for Entire Project Period amount must be less than 10,000,000,000.	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular	Total Costs,	Must be equal to the sum of Total	The Total Indirect Costs Requested for Entire	
Budget, Cumulative	Total Indirect Costs for	Indirect Costs for all budget years	Project Period must be equal to the sum of Total Indirect Costs for all budget years.	
(NIH)	Entire Project Period	Must be less than 10,000,000,000	For NIH processing, the Total Indirect Costs for Entire Project Period amount must be less than 10,000,000,000.	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular	Total Costs,	Must be equal to the sum of all	The Total Direct and Indirect Costs for Entire	
Budget,	Total Direct	Total Direct and Indirect Costs	Project Period must be equal to the sum of all	
Cumulative (NIH)	and Indirect Costs for	values for all budget years	Total Direct and Indirect Costs values for all budget years	
	Entire Project Period	Must be less than 10,000,000,000	For NIH processing, the Total Direct and Indirect Costs for Entire Project Period amount must be less than 10,000,000,000.	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.

Component	Field	Validation	Error Message	Notes & Tips
Modular	Budget			
Budget,	Justifications,			
Cumulative	Personnel			
(NIH)	Justification			
Modular	Budget			
Budget,	Justifications,			
Cumulative	Consortium			
(NIH)	Justification			
Modular	Budget			
Budget,	Justifications,			
Cumulative	Additional			
(NIH)	Narrative			
	Justification			

PHS 398 Checklist

Component	Field	Validation	Error Message	Notes & Tips
Checklist (NIH)	Type of	Read only, pulled from R&R		
	Application	Allow a submission with no		
		Checklist component.		
Checklist (NIH)	Federal	Read only, pulled from R&R		
	Identifier			
Checklist (NIH)	Change of			
	Investigator/			
	Change of			
	Inst.; Change of PI			
Checklist (NIH)	Change of	Must be included if application is	The name of the former PI must be included if	If there has been a change in the Principal
Checklist (WIII)	Investigator/	for change of PI	there has been a Change of PI for the grant.	Investigator, you must include the name of
	Change of	Tor change of the	there has been a change of 11 for the grant.	the former PI so that the grant can be
	Inst.: Name of			matched correctly.
	former PI			3
	(Prefix, First			
	Name, Middle			
	Name, Last			
	Name, Suffix)			
Checklist (NIH)	Change of	Will not be accepted for the		
	Investigator/	Grants.gov submission		
	Change of			
	Inst.: change			
	of grantee inst.			
Checklist (NIH)	Change of	If >40 characters, truncate.	The former institution name exceeds the NIH	Grants.gov length is 120, our db length is
Checklist (1411)	Investigator/	11 To characters, transacte.	limit of 40 characters. The grant image will	40. Consider long-term db change.
	Change of		display the former institution as submitted;	To constast long term as thange.
	Inst.: name of		NIH will store the first 40 characters only.	
	former inst.			
Checklist (NIH)	Inventions			
	and Patents,			
	Yes			
Checklist (NIH)	Inventions			
	and Patents,			
	No			

Component	Field	Validation	Error Message	Notes & Tips
Checklist (NIH)	Inventions and Patents, Previously	Must be answered if response to Inventions and Patents is 'Yes'	Inventions and Patents, Previously Reported must be answered if the answer to Inventions and Patents is 'Yes'	
	Reported (Yes or No)	Should not be answered if response to Inventions and Patents is 'No'	Inventions and Patents, Previously Reported should not be answered if the answer to Inventions and Patents is 'No'	
Checklist (NIH)	Program Income Anticipated (Y/N)			
Checklist (NIH)	Program Income, Budget Period 1-5	Should only be completed if answer to Program Income Anticipated question was 'Y'. Provide error if provided for S10 application. The number of program income budget periods must be less than or equal to the number of budgets provided in the budget component.	If answer to Program Income Anticipated question is 'N', no program income detail may be entered. No program income may be included for S10 applications. Anticipated amount for program income has been provided for <x> budget years. Only <y> years of budgets were provided with this application.</y></x>	
Checklist (NIH)	Program Income, Anticipated Amount 1-5	Must be less than 100,000,000	For NIH processing, the Program Income Anticipated Amount for budget period budget period> must be less than 10,000,000,000.	Grants.gov accepts up to 14 bytes (including 2 decimal places); NIH accepts no more than 10, with 2 decimal places. Long-term db change is recommended.
Checklist (NIH)	Program Income, Sources 1-5			-
Checklist (NIH)	Assurances/ Certification: Explanation			

PHS 398 Research Plan

Component	Field	Validation	Error Message	Notes & Tips
Research Plan	Type of	Read only, pulled from R&R		
(NIH)	Application	Allow applications to come in		
		without this component.		
Research Plan	Research	Required for resubmission for non-	An Introduction must be included for	
(NIH)	Plan	S10 applications.	resubmissions.	
	Attachments:	Limited to 3 pages for non-	The Introduction is limited to three pages.	
	Introduction	SBIR/STTR and non-R36		
		submissions.		
		Introduction limited to 1 page for	The Introduction is limited to one page for this	
		Phase I SBIR/STTR and for R36	submission.	
		Introduction limited to 3 pages for	The Introduction is limited to three pages for	
		Phase II and Fast Track	Phase II SBIR/STTR submissions	
		SBIR/STTR		
		Introduction limited to 4 pages for	The Introduction is limited to four pages for	
		Fast Track	Fast Track submissions	
		Limited to 1 page if prior grant	For R03 submissions, the Introduction is	
		activity code is 'R03'.	limited to one page.	
Research Plan	Research	Provide warning if Research Plan	The Research Plan is limited to 25 pages. This	
(NIH)	Plan	Attachments 2-5 together are	may span 28 pages due to page breaks but the	
	Attachments:	greater than 25 pages and less than	total space occupied by text should not exceed	
	Specific Aims	or equal to 28 pages (applies to all	25 pages.	
		applications not specifically listed		
		below including Fast Track).	m p 1 p1 11 11 14 05 m1	
		Research Plan Attachments 2-5	The Research Plan is limited to 25 pages. This	
		together must be less than or equal	may span 28 pages due to page breaks but the	
		to 28 pages (applies to all	total space occupied by text should not exceed	
		applications not specifically listed	25 pages.	
		below, including Fast Track).	The Descent Plan is limited to 15 needs	
		For SBIR/STTR Phase I, provide	The Research Plan is .limited to 15 pages.	
		warning if Research Plan Attachments 2-5 together are	This may span 18 pages due to page breaks but the total space occupied by text should not	
		greater than 15 pages and less than	exceed 15 pages.	
		or equal to 18 pages	exceed 15 pages.	
		For SBIR/STTR Phase I,	The Research Plan f is limited to 15 pages.	
		Attachments 2-5 together must be	This may span 18 pages due to page breaks	
		less than or equal to 18 pages	but the total space occupied by text should not	
		less than or equal to 10 pages	exceed 15 pages.	
	Ļ		0.1000a 10 pagoo.	

Component	Field	Validation	Error Message	Notes & Tips
		For Fast Track, provide warning if Research Plan Attachments 2-5 together are greater than 40 pages	The Research Plan is limited to 40 pages. This may span 43 pages due to page breaks but the total space occupied by text should not exceed	
		and less than or equal to 43 pages. For Fast Track, Attachments 2 5 together must be less than or equal to 43 pages.	40 pages. The Research Plan is limited to 40 pages. This may span 43 pages due to page breaks but the total space occupied by text should not exceed 40 pages.	
		For conference grant applications (activity code on funding opportunity = 'R13' or 'U13'), Research Plan Attachments 2-5 together must be less than or equal to 10 pages.	The Conference Plan for a Conference Grant application is limited to 10 pages	Applicants will be instructed to submit one attachment only, in the Research Design and Methods attachment.
		For R13 or U13 applications submitted from AHRQ, Research Plan Attachments 2-5 together must be less than or equal to 15 pages	The Conference Plan for an AHRQ Conference Grant application is limited to 15 pages.	AHRQ applications can be identified by a value of 'HS' in rfa_pa_notices_t.phs_org_code.
		For R36 applications (activity code on funding opportunity = 'R36'), provide warning if Research Plan Attachments 2-5 together are greater than 10 pages and less than or equal to 13 pages.	The Research Plan is limited to 10 pages. This may span 12 pages due to page breaks but the total space occupied by text should not exceed 10 pages.	
		For R36 applications (activity code on funding opportunity = 'R36'), Research Plan Attachments 2-5 together must be less than or equal to 13 pages.	The Research Plan is limited to 10 pages. This may span 13 pages due to page breaks but the total space occupied by text should not exceed 10 pages.	
Research Plan (NIH)	Research Plan Attachments: Background and Significance			

Component	Field	Validation	Error Message	Notes & Tips
Research Plan (NIH)	Research Plan Attachments: Preliminary Studies/ Progress Report	Must be included for renewals (except for S10 applications) and Phase II SBIR.	A Progress Report attachment must be included for renewals (competing continuations) and for Phase II SBIR/STTR applications	For grant image, bookmark should be set based on whether this is a new (should show Preliminary Studies) or a resubmission or renewal (should show Progress Report).
Research Plan (NIH)	Research Plan Attachments: Research Design and Methods	Required for all submissions except S10.	The Research Design and Methods section of the Research Plan must be attached to the application.	
Research Plan (NIH)	Research Plan Attachments: Protection of Human Subjects	Required for non-S10 applications, if Human Subjects is 'yes'.	A Protection of Human Subjects attachment must be included if no human subjects are involved. indicate in the attachment.	
Research Plan (NIH)	Research Plan Attachments: Inclusion of Women and Minorities	Required for non-S10 applications if Human Subjects is true and Exemption is not E4	The Inclusion of Women and Minorities Attachment must be included if the response to the Human Subjects question is 'Yes' and if the Exemption Number is not 4.	
Research Plan (NIH)	Research Plan Attachments: Targeted/ Planned Enrollment Table	Required for non-S10 applications if Human Subjects is true and Exemption is not E4	The Targeted/Planned Enrollment Table Attachment must be included if the response to the Human Subjects question is 'Yes' and if the Exemption Number is not 4.	
Research Plan (NIH)	Research Plan Attachments: Inclusion of Children	Required for non-S10 applications if Human Subjects is true and Exemption is not E4	The Inclusion of Children Attachment must be included if the response to the Human Subjects question is 'Yes' and if the Exemption Number is not 4.	

Component	Field	Validation	Error Message	Notes & Tips
Research Plan (NIH)	Research Plan Attachments: Data and Safety Monitoring Plan	Required for non-S10 applications if Human Subjects is true and Clinical Trial question is true.	The Data and Safety Monitoring Plan Attachment must be included if the response to the Human Subjects question is 'Yes' and the response to the Clinical Trial question is 'Yes'.	
Research Plan (NIH)	Research Plan Attachments: Vertebrate Animals	Required for non-S10 applications if VertebrateAnimalsUsedQuestion is Y	A Vertebrate Animals attachment must be included if the response to the Vertebrate/Animals Subject Used Question is 'Yes'	
Research Plan (NIH)	Research Plan Attachments: Consortium/ Contractual Arrangement			
Research Plan (NIH)	Research Plan Attachments: Letters of Support	Required for an R36 application (activity code on funding opportunity = 'R36')	An R36 application must include a Letters of Support attachment. Certification Letters should be included in this attachment.	
Research Plan (NIH)	Research Plan Attachments: Resource Sharing Plan			
Research Plan (NIH)	Research Plan Attachments:	Limited to 10 appendixes	You have submitted more than 10 appendixes. There is a limit of 10 appendix attachments allowed.	
	Appendix	At least one appendix is required for an R36 application (activity code on funding opportunity = 'R36').	An R36 application must include at least one Appendix attachment. Transcripts should be included in this attachment.	

PHS 398 Cover Letter

Component	Field	Validation	Error Message	Notes & Tips
Cover Letter	Cover Letter	For an R13 application (activity	For NIH applications only, a cover letter	
(NIH)	attachment	code on funding opportunity =	should be attached indicating NIH institute	
		'R13' or 'U13'), provide warning	approval for a Conference Grant application.	
		if the cover letter is not attached.		